

**Patent** [19]

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[54] DEODORIZING DEVICE

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[57] ABSTRACT

PROBLEM TO BE SOLVED: To miniaturize the subject device and allow easy use of it even at home by generating convection and abutting air to titanium oxide photocatalyst irradiated with a catalyst reaction excitation light.

SOLUTION: A deodorizing device A is provided with a filter cover 10 having a built-in honeycomb filter 20 impregnating titanium oxide for photocatalyst. A lamp 30 for catalyst reaction excitation is arranged in the honeycomb filter 20. The filter cover 10 and the honeycomb filter 20 are formed in substantially cylindrical shapes, and are arranged concentrically around the lamp 30. A support disk 40 for supporting these is placed in a heater case 50 containing a coil heater 60. Turning on of a switch 53 lights the lamp 30 and a pilot lamp 55 to start heating of the coil heater 60. Then, air is heated, air convection in the arrow direction is generated, and air is taken through an intake hole 51 and abuts to the honeycomb filter 20 to perform deodorization. This device can be easily used even at home.
